

**CLAIMS**

1. Industrial robot having a first part (7) and a second part (5) that are arranged to be movable with respect to each other where at least one  
5 cable (11) extends from the first part (7) to the second part (5) via an internal cavity (12), **characterized** in that an excess of cable extends freely through the internal cavity (12) from the first part (7) to the second part (5).
- 10 2. Industrial robot according to claim 1, **characterized** in that said at least one cable is connected to at least one of the parts via a contact point (10) that is located inside the internal cavity (12).
- 15 3. Industrial robot according to claims 1 or 2, **characterized** in that said at least one cable (11) is connected to at least one of the parts by a releasable contact (10).
- 20 4. Industrial robot according to any preceding claims, **characterized** in that said at least one cable is secured to at least one of the parts at a point (13) located inside the internal cavity (12).
5. Industrial robot according any preceding claims, **characterized** in that one of said parts rotates or pivots about the other part.
- 25 6. Industrial robot according to any preceding claims, **characterized** in that one of the parts comprises an electric motor (8).
- 30 7. Industrial robot according to any preceding claims, **characterized** in that said excess of cable (11) forms an arch inside the internal cavity (12).

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8. Industrial robot according to any of claims 1-6, **characterized** in that said excess of cable (11) forms a spiral inside the internal cavity (12).
9. Industrial robot according to any of claims 1-6, **characterized** in that  
5 said excess of cable (11) forms an S-shape inside the internal cavity (12).
10. Industrial robot according to claim 9, **characterized** in that the excess of cable (11) extends along an inner wall of the internal cavity (12).
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11. Method of connecting at least part of at least one cable (11) between a first (7) part and a second part (5) of an industrial robot which are arranged to be movable with respect to each other where said at least one cable (11) extends from a first contact/securing point (10) on the  
15 first part (7) to a second contact/securing point on the second part (5) via an internal cavity (12), **characterized** in that it comprises the steps of connecting/securing said at least one cable to the first contact/securing point (10), moving the first and second contact/securing points into a position where they are furthest from each  
20 other, extending a length of cable (11) freely through the internal cavity (12) from the first contact/securing point (10) to the second contact/securing point (13) and connecting/securing said at least one cable to the second part (5).
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12. Use of an industrial robot according to any of claims 1-10 in any application where a robot arm must be lightweight or able to operate in small or confined spaces.

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